

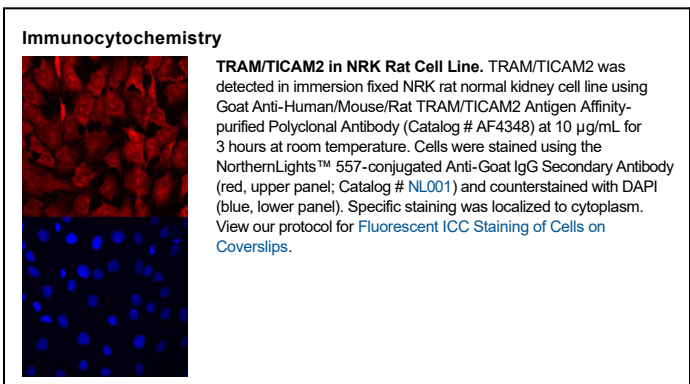
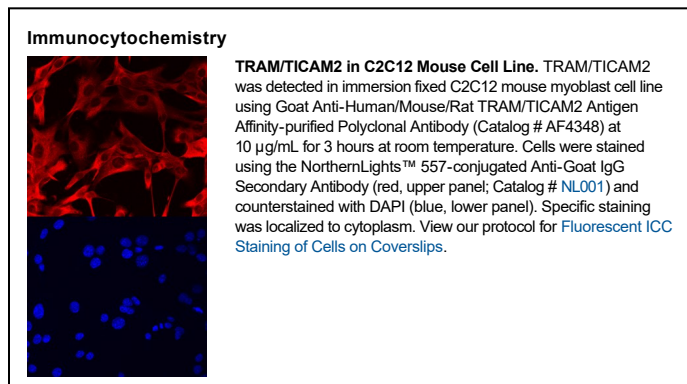
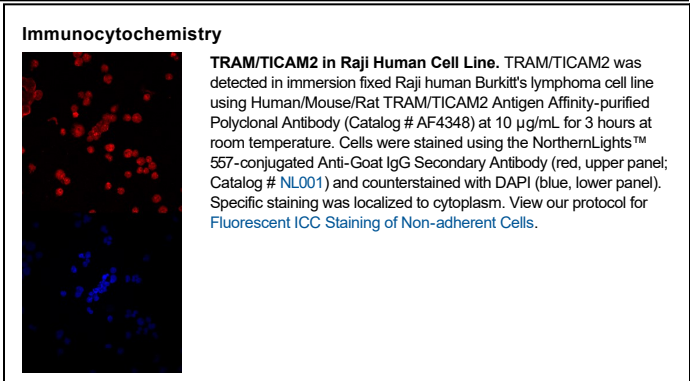
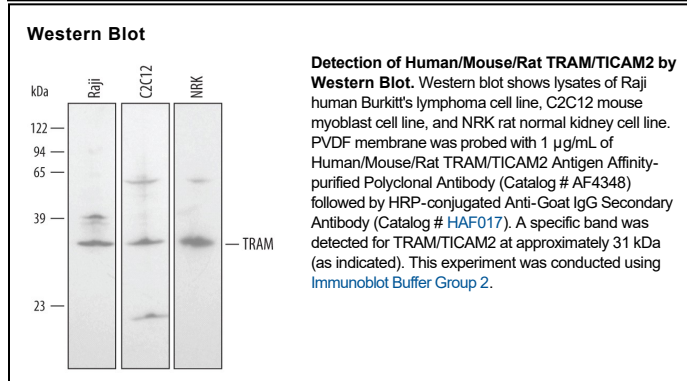
| DESCRIPTION | |
|---------------------------|---|
| Species Reactivity | Human/Mouse/Rat |
| Specificity | Detects endogenous human, mouse and rat TRAM/TICAM2 in Western blots. |
| Source | Polyclonal Goat IgG |
| Purification | Antigen Affinity-purified |
| Immunogen | <i>E. coli</i> -derived recombinant mouse TRAM/TICAM2 Met1-Ala232 Accession # Q8BJQ4 |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS. |

APPLICATIONS

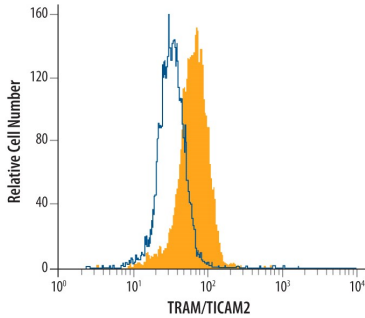
Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

| | Recommended Concentration | Sample |
|---|--|-----------|
| Western Blot | 1 µg/mL | See Below |
| Immunocytochemistry | 5-15 µg/mL | See Below |
| Intracellular Staining by Flow Cytometry | 2.5 µg/10 ⁶ cells | See Below |
| CyTOF-ready | Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation. | |

DATA

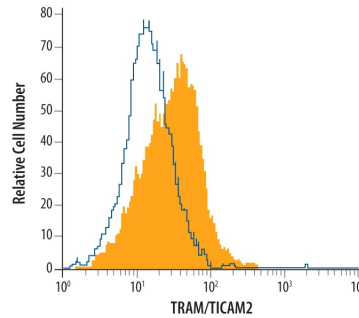


Intracellular Staining by Flow Cytometry



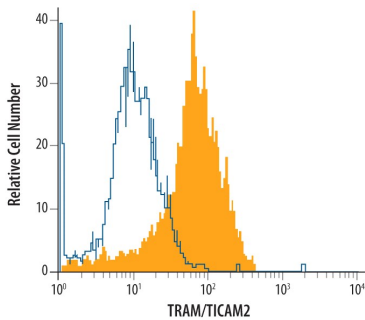
Detection of TRAM/TICAM2 in Raji Human Cell Line by Flow Cytometry. Raji human Burkitt's lymphoma cell line was stained with Human/Mouse/Rat TRAM/TICAM2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4348, filled histogram) or isotype control antibody (Catalog # AB-108-C, open histogram), followed by Phycoerythrin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0107). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

Intracellular Staining by Flow Cytometry



Detection of TRAM/TICAM2 in C2C12 Mouse Cell Line by Flow Cytometry. C2C12 mouse myoblast cell line was stained with Goat Anti-Human/Mouse/Rat TRAM/TICAM2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4348, filled histogram) or control antibody (Catalog # AB-108-C, open histogram), followed by Allophycocyanin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0108). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

Intracellular Staining by Flow Cytometry



Detection of TRAM/TICAM2 in NRK Rat Cell Line by Flow Cytometry. NRK rat normal kidney cell line was stained with Goat Anti-Human/Mouse/Rat TRAM/TICAM2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4348, filled histogram) or control antibody (Catalog # AB-108-C, open histogram), followed by Allophycocyanin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0108). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

PREPARATION AND STORAGE

| | |
|--------------------------------|--|
| Reconstitution | Reconstitute at 0.2 mg/mL in sterile PBS. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

BACKGROUND

The innate and adaptive immune responses depend on systems that link cell surface surveillance receptor signals to cytoplasmic proteins such as kinases, adaptors, and transcription factors. Toll-like receptors (TLR) recognize different pathogen associated molecular patterns (PAMPs), and initiate a signaling cascades mediated by a Toll/interleukin-1 receptor (TIR) domain-containing adaptor proteins such as MyD88, TIRAP/MAL, and TRIF. Mouse TRIF-related adaptor molecule (TRAM), is a 232 amino acid, 26 kDa (predicted), ubiquitously expressed member of the TIR domain-containing adaptor family. TRAM, also known as TIR domain-containing adapter protein 2 (TICAM2) and TIR domain-containing protein (TIRP), contains a central Toll/interleukin-1 receptor (TIR) domain that is most similar to that of TRIF. TRAM plays an essential role in the MyD88-independent signaling of TLR4 by binding members of the IRAK family, ultimately leading to the activation of NFκB. Mouse TRAM shares 75% and 77% identity to human and rat TRAM, respectively.